

### ***Appendix A. References Cited***

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## ***Appendix B. Definitions***

**Appropriate Management Response (AMR)** – Specific actions taken in response to a wildland fire to implement protection and prescribed fire use objectives. The AMR is based on an evaluation of risks to firefighter and public safety, the circumstances under which the fire is occurring, weather and fuel conditions, natural and cultural resource management objectives, protection priorities, values to be protected, and local, geographic area, and national fire situations.

**Ecosystem** – An interacting system of interdependent organisms.

**Ecosystem management** – The careful and skillful use of ecological, economic, social, and managerial principles in managing ecosystems to produce, restore, or sustain ecosystem integrity and desired conditions over the long term.

**Fire Management Plan (FMP)** – A strategic plan that defines a program to manage wildland and prescribed fires, and documents the fire management program in the approved land use plan. The FMP is supplemented by operational plans such as the preparedness plan, preplanned dispatch plan, prescribed fire plans, and prevention plan.

**Fire Management Unit (FMU)** – Any land management area definable by objectives, topographic features, access, values-to-be-protected, political boundaries, fuel types, or major fire regimes, that sets it apart from management characteristics of an adjacent unit. FMUs are delineated in Fire Management Plans (FMP). This FMP designates only one FMU for St. Croix National Scenic Riverway because management characteristics are largely uniform across the Riverway.

**Fire regime** – The pattern of fire across a landscape, characterized by frequency, intensity, and type and size of typical fire events, resulting from a unique combination of climate and vegetation.

**Fuel** – The materials burned in a fire: duff, litter, grass, dead branch wood, snags, logs, stumps, weeds, brush, foliage, and, to a limited degree, live vegetation.

**General Management Plan (GMP)** – A planning document that describes broad management goals and objectives for a National Park Service unit.

**Hazard fuels** – also **hazardous fuels** – Fuels which, when ignited, threaten: public safety, structures and facilities, cultural resources, natural resources, natural processes, or any other social, political, or economic value. Also, fuels that permit the spread of wildland fires across administrative boundaries except as authorized by agreement. The hazardous condition can be mitigated through hazard mitigation, which is any treatment that reduces the likelihood of ignition, fire intensity, or rate of spread.

**Initial attack** – The first aggressive suppression action taken on a fire, consistent with firefighter and public safety and values to be protected.

**Mitigation actions** – Mitigation actions are considered to be those on-the-ground activities that serve to check, direct, or delay the spread of unwanted wildland fire and minimize threats to life, property, and resources. Actions may include mechanical and physical non-fire tasks, specific fire applications, and limited suppression actions. These actions will be used to construct firelines, reduce fuel concentrations, break up vertical fuel continuity, create fuel breaks or barriers around critical or sensitive sites or resources, create "blacklines" through controlled burnouts, and limit fire spread and behavior.

**National Fire Danger Rating System (NFDRS)** – A system to predict several measures of fire probability and resistance to control.

**Preparedness** – Activities that lead to a safe, efficient and cost effective fire management program in support of land and resource management objectives through appropriate planning and coordination. This term replaces presuppression.

**Prescribed fire** – Any fire ignited by management actions to meet specific objectives. A written, approved prescribed fire plan must exist, and NEPA requirements must be met, prior to ignition.

**Prescribed fire plan** – A plan required for each fire application ignited by managers. It must be prepared by qualified personnel and approved by Superintendent prior to implementation, and includes criteria for the conditions under which the project may be conducted (prescription).

**Prescription** – Measurable criteria which: define conditions under which a prescribed fire may be ignited; guide selection of appropriate management responses; and indicate other required actions. Prescription criteria may include safety, economic, public health, environmental, geographic, administrative, social or legal considerations.

**Resource Management Plan (RMP)** – A planning document that describes resource management goals and objectives for a National Park Service unit.

**Suppression** – also **wildland fire suppression** – An appropriate management response to wildland fire that results in curtailment of fire spread and eliminates all identified threats from the particular fire. All wildland fire suppression activities provide for firefighter and public safety as the highest consideration while minimizing loss of resource values, economic expenditures, and the use of critical firefighting resources.

**Wildland Fire** – Any non-structure fire, other than prescribed fire, that occurs in the wildland. This term encompasses fires previously called both wildfires and prescribed natural fires.

**Wildland fire management program** – The full range of activities and functions necessary for planning, preparedness, emergency suppression operations, and emergency rehabilitation of wildland fires; prescribed fire operations; and non-fire fuels management to reduce risks to public safety and achieve resource management goals.

**Wildland Fire Situation Analysis (WFSA)** – The decision-making process that evaluates alternative management strategies against selected safety, environmental, social, economic, political, and resource management objectives. Also, the paperwork documenting this process.

**Wildland fire use** – The management of naturally-ignited wildland fires to accomplish specific, pre-stated, resource management objectives in pre-defined geographic areas outlined in Fire Management Plans. WFU fires are not permitted at the Riverway.

**Wildland-urban interface** – An area or zone where structures and other human development occur next to or within undeveloped wildland fuel complexes.

**Appendix C. Species Lists**

SCIENTIFIC NAME:	COMMON NAME:	US	MN	WI
<b>PLANTS</b>				
<i>Asclepias ovalifolia</i>	Dwarf Milkweed			TH
<i>Allium cernuum</i>	Nodding Wild Onion		TH	
<i>Anemone caroliniana</i>	Carolina Anemone			EN
<i>Arabis missouriensis</i>	Rock Cress	C2		
<i>Aristida tuberculosa</i>	Sea-beach Needlegrass		SC	
<i>Astragalus crassicaarpus</i>	Prairie Plum			EN
<i>Aureolaria pedicularia</i>	Fernleaf False Foxglove		TH	
<i>Baptisia alba</i>	White Wild Indigo		SC	
<i>Besseyia bullii</i>	Kitten-tails	3C	TH	TH
<i>Calamovilfa longifolia</i>	Sand Reed			TH
<i>Calypso bulbosa</i>	Calypso Orchid			TH
<i>Carex annectens</i>	Yellow-fruited Sedge		SC	
<i>Carex prasina</i>	Drooping Sedge			TH
<i>Carex typhina</i>	Cattail Sedge		SC	
<i>Carex xerantica</i>	Dry Sedge		SC	
<i>Catabrosa aquatica</i>	Brook Grass			EN
<i>Cephalanthus occidentalis</i>	Buttonbush		SC	
<i>Dalea villosa</i>	Silky prairie clover			SC
<i>Decodon verticillatus</i> var. <i>laevigatus</i>	Waterwillow		SC	
<i>Desmodium illinoense</i>	Illinois Tick-trefoil		TH	
<i>Desmodium nudiflorum</i>	Stemless Tick-trefoil		SC	
<i>Drosera anglica</i>	English Sundew		SC	TH
<i>Dryopteris goldiana</i>	Goldie's Fern		SC	
<i>Echinochloa walteri</i>	Walter's Barnyard Grass		SC	
<i>Floerkea proserpinacoides</i>	False Mermaid		TH	
<i>Hamamelis virginiana</i>	Witch-Hazel		SC	
<i>Hydrocotyle americana</i>	American Water-pennywort		SC	
<i>Juglans cinerea</i>	Butternut		SC	
<i>Lechea tenuifolia</i>	Narrow-leaved Pinweed		EN	
<i>Liatis punctata</i> var. <i>nebraskana</i>	Dotted Blazing Star			EN
<i>Lonicera involucrata</i>	Fly Honeysuckle			EN
<i>Lysimachia quadrifolia</i>	Whorled Loosestrife		SC	
<i>Minuartia dawsonensis</i>	Rock Sandwort		SC	
<i>Myriophyllum farwellii</i>	Farewell's Water-milfoil		SC	
<i>Oenothera rhombipetala</i>	Rhombic-petaled Evening Primrose		SC	
<i>Opuntia fragilis</i>	Brittle Prickly-pear			TH
<i>Orchis rotundifolia</i>	Small Round-leaved Orchis			TH
<i>Panax quinquefolius</i>	Ginseng	3C	SC	

SCIENTIFIC NAME:	COMMON NAME:	US	MN	WI
<b>PLANTS (con't)</b>				
<i>Parmelia stuppea</i>	Species of Lichen		SC	
<i>Paronychia fastigiata</i>	Forked Chickweed		EN	
<i>Pellaea atropurpurea</i>	Purple Cliff-brake		SC	
<i>Petasites sagittatus</i>	Sweet Coltsfoot			TH
<i>Poa paludigena</i>	Bog Bluegrass	C2	TH	TH
<i>Polygala cruciata</i>	Cross-leaved Milkwort		EN	
<i>Polygonum arifolium</i> var. <i>pubescens</i>	Halberd-leaved Tearthumb		SC	
<i>Prenanthes aspera</i>	Rough White Lettuce			EN
<i>Primula mistassinica</i>	Bird's-eye Primrose	3C		
<i>Ruellia humilis</i>	Toothcup, Wild Petunia		EN	EN
<i>Scutellaria parvula</i>	Small Skullcap			EN
<i>Solidago caesia</i>	Blue-stemmed Goldenrod			EN
<i>Solidago sciaphila</i>	Cliff Goldenrod		SC	
<i>Talinum rugospermum</i>	Prairie Fame-flower	C2	EN	
<i>Tephrosia virginiana</i>	Goat's-rue		SC	
<i>Verbena simplex</i>	Narrow-leaved Vervain		SC	
<i>Waldsteinia fragarioides</i>	Barren Strawberry		SC	
<b>MUSSELS</b>				
<i>Actinonaias ligamentina</i>	Mucket		TH	
<i>Alasmidonta marginata</i>	Elktoe		TH	RULE
<i>Anodonta imbecillis</i>	Paper Pondshell			RULE
<i>Cumberlandia monodonta</i>	Spectaclecase	C2	TH	EN
<i>Cyclonaias tuberculata</i>	Purple Wartyback		TH	EN
<i>Ellipsaria lineolata</i>	Butterfly		TH	
<i>Elliptio crassidens crassidens</i>	Elephant-ear		EN	EN
<i>Elliptio dilatata</i>	Spike		SC	
<i>Epioblasma triquetra</i>	Snuffbox	C2	TH	EN
<i>Fusconaia ebena</i>	EbonysheIl		EN	EN
<i>Lampsilis higginsii</i>	Higgins eye	EN	EN	EN
<i>Lasmigona compressa</i>	Creek Heelsplitter		SC	
<i>Lasmigona costata</i>	Fluted-shell		SC	
<i>Ligumia recta</i>	Black Sandshell		SC	
<i>Megalonaias nervosa</i>	Washboard		TH	
<i>Obovaria olivaria</i>	Hickorynut		SC	
<i>Plethobasus cyphus</i>	Bullhead			EN
<i>Pleurobema sintoxia</i>	Round Pigtoe			RULE
<i>Quadrula fragosa</i>	Winged Mapleleaf	EN	EN	EN
<i>Quadrula metanevra</i>	Monkeyface		TH	TH
<i>Simpsonaias ambigua</i>	Salamander Mussel	C2	TH	TH
<i>Tritogonia verrucosa</i>	Pistolgrip, Buckhorn		TH	TH

SCIENTIFIC NAME:	COMMON NAME:	US	MN	WI
<b>BUTTERFLIES AND DRAGONFLIES</b>				
<i>Atrytonopsis hianna</i>	Dusted Skipper		SC	
<i>Erynnis persius</i>	Persius Dusky Wing		EN	
<i>Hesperia ottoe</i>	Ottoe Skipper		TH	
<i>Incisalia irus</i>	Frosted Elfin			TH
<i>Lycaeides idas nabokovi</i>	Nabokov's Blue, Northern Blue		SC	EN
<i>Lycaeides melissa samuelis</i>	Karner Blue Butterfly	EN	EN	
<i>Ophiogomphus anomalis</i>	Extra-striped Snaketail	C2	SC	EN
<i>Ophiogomphus howei</i>	Pygmy Snaketail	C2		TH
<i>Ophiogomphus susbehcha</i>	St. Croix Snaketail		SC	EN
<i>Phyciodes batessi</i>	Tawny Crescent Spot	C2		
<i>Speyeria idalia</i>	Regal Fritillary		SC	EN
<b>FISH</b>				
<i>Acipenser fulvescens</i>	Lake Sturgeon	C2	SC	RULE
<i>Ammocrypta asprella</i>	Crystal Darter	C2	SC	EN
<i>Coregonus artedii</i>	Lake Herring, Cisco			RULE
<i>Cycleptus elongatus</i>	Blue Sucker	C2	SC	TH
<i>Etheostoma microperca</i>	Least Darter		SC	
<i>Hiodon alosoides</i>	Goldeye			EN
<i>Hybopsis aestivalis</i>	Speckled Chub			TH
<i>Ictiobus niger</i>	Black Buffalo		SC	TH
<i>Moxostoma carinatum</i>	River Redhorse			TH
<i>Moxostoma valenciennesi</i>	Greater Redhorse			TH
<i>Notropis amnis</i>	Pallid Shiner		SC	EN
<i>Notropis anogenus</i>	Pugnose Shiner 1928		SC	TH
<i>Opsopoeodus emiliae</i>	Pugnose Minnow		SC	
<i>Percina evides</i>	Gilt Darter		SC	TH
<i>Polyodon spathula</i>	Paddlefish	3C	TH	TH
<b>AMPHIBIANS AND REPTILES</b>				
<i>Apalone mutica</i>	Smooth Softshell		SC	
<i>Chelydra serpentina</i>	Snapping Turtle		SC	
<i>Clemmys insculpta</i>	Wood Turtle		TH	TH
<i>Coluber constrictor</i>	Blue Racer		SC	
<i>Crotalus horridus</i>	Timber Rattlesnake		TH	
<i>Emydoidea blandingii</i>	Blandings Turtle	C2	TH	TH
<i>Eumeces fasciatus</i>	Five-lined Skink		SC	
<i>Hemidactylium scutatum</i>	Four-toed Salamander		SC	
<i>Pituophis melanoleucus</i>	Gopher Snake, Bullsnake		SC	

SCIENTIFIC NAME:	COMMON NAME:	US	MN	WI
<b>BIRDS</b>				
<i>Accipiter cooperii</i>	Cooper's Hawk			RULE
<i>Accipiter gentilis</i>	Northern Goshawk	C2		
<i>Ammodramus henslowii</i>	Henslow's Sparrow		EN	TH
<i>Ammodramus nelsoni</i>	Nelson's Sharp-tailed Sparrow		SC	
<i>Asio flammeus</i>	Short-eared Owl		SC	
<i>Buteo lineatus</i>	Red-shouldered Hawk		SC	TH
<i>Casmerodius albus</i>	Great Egret			TH
<i>Cygnus buccinator</i>	Trumpeter Swan			EN
<i>Dendroica cerulea</i>	Cerulean Warbler		SC	TH
<i>Dendroica kirtlandii</i>	Kirtland's Warbler	EN		RULE
<i>Empidonax virescens</i>	Acadian Flycatcher		SC	TH
<i>Falco peregrinus anatum</i>	American Peregrine Falcon	EN	TH	EN
<i>Haliaeetus leucocephalus</i>	Bald Eagle	TH	SC	
<i>Lanius ludovicianus</i>	Loggerhead shrike	C2	TH	EN
<i>Larus pipixcan</i>	Franklin's Gull		SC	
<i>Nycticorax violaceus</i>	Yellow-crowned Night-Heron			TH
<i>Oporornis formosus</i>	Kentucky Warbler			TH
<i>Pandion haliaetus</i>	Osprey			TH
<i>Pelecanus erythrorhynchus</i>	American White Pelican		SC	
<i>Phalacrocorax auritus</i>	Double-crested Cormorant			
<i>Podiceps auritus</i>	Horned Grebe		TH	
<i>Podiceps grisegena</i>	Red-necked Grebe			EN
<i>Seiurus motacilla</i>	Louisiana Waterthrush		SC	
<i>Sterna caspia</i>	Caspian Tern			EN
<i>Sterna forsteri</i>	Forster's Tern		SC	EN
<i>Sterna hirundo</i>	Common Tern		TH	EN
<i>Wilsonia citrina</i>	Hooded Warbler		SC	TH
<b>MAMMALS</b>				
<i>Canis lupus</i>	Timber Wolf	EN	SC	EN
<i>Lynx canadensis</i>	Lynx	C2		RULE
<i>Martes americana</i>	Pine Marten	3C		EN
<i>Myotis septentrionalis</i>	Northern Myotis		SC	
<i>Pipistrellus subflavus</i>	Eastern Pipistrelle		SC	

EN – Endangered

TH – Threatened

C2 – Candidate (not enough data to support listing)

3C – Former candidate (more abundant than once thought)

SC – Special concern

RULE – Protected or regulated (by state or federal legislation or policy)

**NOTE: ADDITIONAL RARE, THREATENED, OR ENDANGERED SPECIES MAY OCCUR WITHIN THE BOUNDARIES OF THE RIVERWAY - HOWEVER, HARD DATA IS CURRENTLY LACKING TO CONFIRM SUCH SPECIES' PRESENCE**

Information obtained from the Minnesota Natural Heritage Program (1995) and the Wisconsin Natural Heritage Program (1993 and 1995). The MN data included rare occurrences within the SACN and LOSA statutory boundaries, and the WI data included rare features for townships bordering SACN. Additional information obtained from the following reports:

- Doolittle, C. J. 1988. Distribution and Relative Abundance of Freshwater Mussels in the Saint Croix National Scenic Riverway. Cable Natural History Museum Sigurd Olson Environmental Institute, Ashland, WI.
- Heath, D. J., and P. W. Rasmussen. 1990. Results of Base-Line Sampling of Freshwater Mussel Communities for Long-Term Monitoring of the Saint Croix National Scenic Riverway, Minnesota and Wisconsin. Prepared for USDI, NPS, St. Croix NSR, by WIDNR, Madison, WI.
- Judziewicz, Emmet J. 1994. FINAL REPORT: Inventory and Monitoring of Rare Vascular Plants, St. Croix National Scenic Riverway, Minnesota and Wisconsin. Department of Botany, University of Wisconsin, Madison, WI.
- Maercklein, R.A. and T. O'Halloran. 1999. A Checklist of Birds at St. Croix National Scenic Riverway. Unpublished document.